PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

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Applicant's or agent's file reference PCT-E5259	FOR FURTHER ACT	FION	See Form PCT/IPEA/4	416		
International application No. PCT/KR2005/004454	International filing date(Priority date (day/month			
	22 DECEMBER 20		22 DECEMBER 2004 ((22.12.2004)		
International Patent Classification (IPC)	or national classification a	and IPC				
H01M 10/02(2006.01)i						
Applicant						
SK CORPORATION et al						
This report is the international pre- Authority under Article 35 and tra			nternational Preliminary E	xamining		
2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total ofsheets, as follows:						
		•		0 11		
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes						
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the						
Supplemental Bo	x. <i>Il Bureau only)</i> a total of (i	ndicate type and number	r of electronic carrier(s))			
containing a sequence li	sting and/or tables related	thereto, in electronic for	m only, as indicated in the	Supplemental		
Box relating to Sequence	e Listing (see Section 802	of the Administrative In	structions).			
4. This report contains indications re	elating to the following iter	ms:				
Box No. I Basis of the report						
Box No. II Priority	II Priority					
Box No. III Non-establi	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
) 1 •			
Date of submission of the demand		Date of completion of	this report			
17 MAY 2006 (17.05.2006)		05 APRIL 20	07 (05.04.2007)			
Name and mailing address of the IPEA/	KR	Authorized officer				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2005/004454

Box No.	I Basis of the report
1. With othe	th regard to the language, this report is based on the international application in the language in which it was filed, unless travise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)
to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished a receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not xed to this report): the international application as originally filed/furnished
	the description: as originally filed/furnished
	pages received by this Authority on
	pages* received by this Authority on
	the claims: pagesas originally filed/furnished
	pages* as amended (together with any statment) under Article 19
	received by this Authority on
	pages* received by this Authority on
	At a describerary
	the drawings: pagesas originally filed/furnished
	pages* received by this Authority on
1	pages* received by this Authority on
3.	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify):
4	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify): any table(s) related to sequence listing (specify):
* If ite	m 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2005/004454

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-13	YES
	Claims	None	ЙО
Inventive step (IS)	Claims	1-13	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims	None	NO

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following documents:
 - D1) KR2002-0012397 A
 - D2) KR2002-0093781 A
 - D3) KR2001-0008762 A
 - 2. Novelty and Inventive Step

The subject matter of claims 1-13 of the present invention relates to a high power lithium unit cell and a high power lithium battery pack, comprising: a rectangular anode collector; a rectangular cathode collector; a separator film; an anode terminal connected to an anode plate connecting part which protrudes from either of two long sides of four sides of the rectangular anode plate; an cathode terminal connected to an cathode plate connecting part which protrudes from either of two long sides of four sides of the rectangular anode plate.

Document D1 relates to the lithium secondary battery of the plate shape including the electrode assembly which freely can diversify the location of the cathode terminal and anode terminal.

Document D2 relates to the lithium secondary battery including the electrode structure in which the anode plate and negative plate take turns, and in which the tap of the anode plate is overlapped with the anode plate, and which the tap of the negative plate is overlapped with the negative plate.

Document D3 relates to a Li polymer secondary cell which is provided in order to enhance the reliability in production and manipulation by improving the arrangement structure of anode and cathode terminals electrically connected to an external circuit. The anode is arranged at different side from the cathode tap. The taps are welded to an anode terminal and a cathode terminal to be connected with an external circuit.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

None of the documents D1-D3 disclose a high power lithium unit cell and a high power lithium battery pack, comprising: an anode terminal connected to an anode plate connecting part which protrudes from either of two long sides of four sides of the rectangular anode plate; an cathode terminal connected to an cathode plate connecting part which protrudes from either of two long sides of four sides of the rectangular anode plate.

Therefore, the subject matter of claims 1-13 is considered to be novel and to involve an inventive step under PCT Article 33(2)-33(3).

3. Industrial Application

The subject matter of claims 1-13 is considered to be industrially applicable under PCT Article 33(4).